

10065996_CLS

Most Frequently Occurring Classifications of Patents Returned
From A Search of 10065996 on April 11, 2005

Original Classifications

9	381/313
7	381/325
6	181/135
6	181/151
6	379/433.02
4	181/129
4	181/152
4	181/156
4	379/433.03
4	381/380
4	381/71.5
4	381/89
4	381/96
4	455/569.1
3	56/202
3	340/575
3	381/328
3	381/356
3	381/357
3	381/372
3	439/676
2	15/326
2	60/562
2	137/315.21
2	137/625.17
2	181/144
2	181/145
2	181/230
2	219/757
2	303/9.73
2	340/388.1
2	348/374
2	351/201
2	359/694
2	379/142.04
2	379/420.02
2	379/430
2	381/345
2	381/349
2	381/351
2	381/370
2	381/381
2	381/386

2 381/67
2 381/91
2 422/82.02
2 434/113
2 439/607
2 439/609

Cross-Reference Classifications

21 181/156
18 381/328
16 181/199
10 381/322
10 381/349
7 181/153
7 381/356
6 181/144
6 181/146
6 381/355
6 381/357
6 381/370
5 181/130
5 181/145
5 381/330
5 381/345
4 181/147
4 181/150
4 181/160
4 340/576
4 379/430
4 379/433.02
4 379/433.03
4 381/338
4 381/354
4 381/372
4 381/89
3 181/148
3 181/152
3 181/155
3 340/388.4
3 340/391.1
3 381/324
3 381/348
3 381/350
3 381/353
3 381/361
3 381/371
3 381/380
3 381/386

3 381/387
3 381/71.7
3 381/98
3 417/310
3 418/DIG 1
3 439/676
3 439/939
3 455/350
2 2/423
2 56/320.2
2 92/98D
2 92/99
2 128/859
2 137/625.4
2 181/129
2 181/135
2 181/151
2 181/163
2 181/182
2 181/187
2 181/224
2 181/272
2 181/296
2 251/174
2 251/315.08
2 251/315.12
2 251/316
2 303/119.1
2 303/9.63
2 303/9.75
2 351/123
2 359/700
2 359/704
2 361/681
2 368/10
2 379/142.17
2 379/429
2 379/433.06
2 379/434
2 379/93.23
2 381/103
2 381/111
2 381/182
2 381/313
2 381/327
2 381/329
2 381/342
2 381/346

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2 381/351
2 381/373
2 381/374
2 381/375
2 381/376
2 381/385
2 381/59
2 381/71.1
2 381/74
2 381/86
2 381/92
2 417/269
2 422/82.03
2 422/82.04
2 422/98
2 434/112
2 434/116
2 434/169
2 439/607
2 455/351
2 455/575.1

Combined Classifications

25 181/156
21 381/328
17 181/199
12 381/349
11 381/313
10 379/433.02
10 381/322
10 381/356
9 381/357
8 181/135
8 181/144
8 181/151
8 181/153
8 379/433.03
8 381/325
8 381/370
8 381/89
7 181/145
7 181/146
7 181/152
7 381/345
7 381/372
7 381/380
6 181/129
6 379/430

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6 381/355
6 439/676
5 181/130
5 181/150
5 181/160
5 381/330
5 381/338
5 381/386
5 381/71.5
5 381/96
4 181/147
4 340/388.4
4 340/575
4 340/576
4 381/324
4 381/350
4 381/351
4 381/354
4 381/371
4 381/98
4 417/310
4 439/607
4 455/569.1
3 56/202
3 181/148
3 181/155
3 181/224
3 303/9.73
3 340/391.1
3 361/681
3 368/10
3 379/420.02
3 381/348
3 381/353
3 381/361
3 381/373
3 381/381
3 381/385
3 381/387
3 381/71.7
3 381/86
3 381/91
3 381/92
3 417/269
3 418/DIG 1
3 439/939
3 455/350
3 455/575.1

2 2/423
2 15/326
2 56/320.2
2 60/562
2 62/262
2 91/375A
2 92/98D
2 92/99
2 128/859
2 137/315.21
2 137/625.17
2 137/625.4
2 181/163
2 181/182
2 181/187
2 181/206
2 181/230
2 181/272
2 181/296
2 219/757
2 251/174
2 251/315.08
2 251/315.12
2 251/316
2 303/116.1
2 303/117.1
2 303/119.1
2 303/9.63
2 303/9.75
2 340/388.1
2 348/374
2 351/123
2 351/201
2 359/694
2 359/700
2 359/704
2 361/683
2 379/142.04
2 379/142.17
2 379/429
2 379/433.01
2 379/433.06
2 379/434
2 379/93.23
2 381/103
2 381/111
2 381/160
2 381/182

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2 381/189
2 381/190
2 381/308
2 381/323
2 381/327
2 381/329
2 381/342
2 381/346
2 381/374
2 381/375
2 381/376
2 381/59
2 381/67
2 381/71.1
2 381/74
2 381/94.1
2 417/312
2 418/132
2 418/55.6
2 422/82.02
2 422/82.03
2 422/82.04
2 422/98
2 434/112
2 434/113
2 434/116
2 434/169
2 439/541.5
2 439/609
2 455/351

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Titles of Most Frequently Occurring Classifications of Patents Returned

From A Search of 10065996 on April 11, 2005 ✓

25 181/156 (4 OR, 21 XR)
Class 181 : ACOUSTICS
181/148 DIAPHRAGM AND ENCLOSURE
181/156 .Reflex baffle

21 381/328 (3 OR, 18 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/322 .Specified casing or housing
381/328 ..Ear insert

17 181/199 (1 OR, 16 XR)
Class 181 : ACOUSTICS
181/175 SOUND-MODIFYING MEANS
181/198 .Housing or enclosure (e.g., sound confining
and absorbing)
181/199 ..Speaker type

12 381/349 (2 OR, 10 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/337 .Having acoustic wave modifying structure
381/345 ..Acoustic enclosure
381/349 ...Bass reflex (e.g., rear wave)

11 381/313 (9 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/313 .Directional

10 379/433.02 (6 OR, 4 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/419 TERMINAL
379/428.01 .Housing or housing component
379/433.01 ..Handset structure
379/433.02 ...Speaker mounting (i.e., speaker phone
feature)

10 381/322 (0 OR, 10 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS

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AND DEVICES

381/312 HEARING AIDS, ELECTRICAL
381/322 .Specified casing or housing

10 381/356 (3 OR, 7 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/355 .Housed microphone
381/356 ..Directional

9 381/357 (3 OR, 6 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/355 .Housed microphone
381/356 ..Directional
381/357 ...With plural sound ports (e.g., pressure
gradient)

8 181/135 (6 OR, 2 XR)
Class 181 : ACOUSTICS
181/126 ANATOMIC OR PROSTHETIC RELATION
181/128 .Ear and mouth
181/130 ..Auditory canal insert
181/135 ...Ear insert

8 181/144 (2 OR, 6 XR)
Class 181 : ACOUSTICS
181/144 PLURAL DIAPHRAGM SOUND SOURCES

8 181/151 (6 OR, 2 XR)
Class 181 : ACOUSTICS
181/148 DIAPHRAGM AND ENCLOSURE
181/151 .With sound-absorbing means

8 181/153 (1 OR, 7 XR)
Class 181 : ACOUSTICS
181/148 DIAPHRAGM AND ENCLOSURE
181/153 .Rounded enclosure (e.g., curved, etc.)

8 379/433.03 (4 OR, 4 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/419 TERMINAL
379/428.01 .Housing or housing component
379/433.01 ..Handset structure
379/433.03 ...Microphone mounting

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- 8 381/325 (7 OR, 1 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 .Specified casing or housing
 381/325 ..Cerumen protection
- 8 381/370 (2 OR, 6 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/182 .Plural or compound reproducers
 381/370 ..Headphone
- 8 381/89 (4 OR, 4 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/87 HAVING NON-ELECTRICAL FEATURE (E.G., MOUNTING)
 381/89 .Loudspeakers driven in given phase
 relationship
- 7 181/145 (2 OR, 5 XR)
 Class 181 : ACOUSTICS
 181/144 PLURAL DIAPHRAGM SOUND SOURCES
 181/145 .Plural chambers
- 7 181/146 (1 OR, 6 XR)
 Class 181 : ACOUSTICS
 181/144 PLURAL DIAPHRAGM SOUND SOURCES
 181/146 .With sound-asborbing means
- 7 181/152 (4 OR, 3 XR)
 Class 181 : ACOUSTICS
 181/148 DIAPHRAGM AND ENCLOSURE
 181/152 .With horn
- 7 381/345 (2 OR, 5 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/337 .Having acoustic wave modifying structure
 381/345 ..Acoustic enclosure
- 7 381/372 (3 OR, 4 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER

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381/182 .Plural or compound reproducers
 381/370 ..Headphone
 381/371 ...Particular cup
 381/372Having mechanical or acoustic sound
 attenuation

7 381/380 (4 OR, 3 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES

381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/182 .Plural or compound reproducers
 381/370 ..Headphone
 381/374 ...Particular support structure
 381/380Ear insert or bone conduction

6 181/129 (4 OR, 2 XR)

Class 181 : ACOUSTICS

181/126 ANATOMIC OR PROSTHETIC RELATION
 181/128 .Ear and mouth
 181/129 ..Ear

6 379/430 (2 OR, 4 XR)

Class 379 : TELEPHONIC COMMUNICATIONS

379/419 TERMINAL
 379/428.01 .Housing or housing component
 379/430 ..Body supported (e.g., headgear)

6 381/355 (0 OR, 6 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES

381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/355 .Housed microphone

6 439/676 (3 OR, 3 XR)

Class 439 : ELECTRICAL CONNECTORS

439/625 WITH INSULATION OTHER THAN CONDUCTOR SHEATH
 439/626 .Plural-contact coupling part
 439/660 ..Plural-contact coupling part comprises
 receptacle or plug
 439/676 ...Having push-pull-engaging contacts spaced
 along planar side wall transverse to longit

udinal

engagement axis (e.g., telephone jack or pl

ug)

5 181/130 (0 OR, 5 XR)

Class 181 : ACOUSTICS

181/126 ANATOMIC OR PROSTHETIC RELATION

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- 181/128 .Ear and mouth
- 181/130 ..Auditory canal insert

- 5 181/150 (1 OR, 4 XR)
 - Class 181 : ACOUSTICS
 - 181/148 DIAPHRAGM AND ENCLOSURE
 - 181/150 .Recessed (e.g., wall-mounted, etc.)

- 5 181/160 (1 OR, 4 XR)
 - Class 181 : ACOUSTICS
 - 181/157 DIAPHRAGM
 - 181/160 .With resonant chamber

- 5 381/330 (0 OR, 5 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/312 HEARING AIDS, ELECTRICAL
 - 381/322 .Specified casing or housing
 - 381/330 ..Hook over ear

- 5 381/338 (1 OR, 4 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 - 381/337 .Having acoustic wave modifying structure
 - 381/338 ..With tubular waveguide or resonant element

- 5 381/386 (2 OR, 3 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 - 381/386 .Mounting or support feature of housed loudspeaker

- 5 381/71.5 (4 OR, 1 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/71.1 ACOUSTICAL NOISE OR SOUND CANCELLATION
 - 381/71.5 .Within duct

- 5 381/96 (4 OR, 1 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
 - 381/96 LOUDSPEAKER FEEDBACK

- 4 181/147 (0 OR, 4 XR)
 - Class 181 : ACOUSTICS
 - 181/144 PLURAL DIAPHRAGM SOUND SOURCES

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181/147 .Three diaphragms

4 340/388.4 (1 OR, 3 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/384.1 AUDIBLE INDICATION
 340/388.1 .Diaphragm (e.g., horn or buzzer)
 340/388.4 ..With resonance chamber

4 340/575 (3 OR, 1 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/540 .Specific condition
 340/573.1 ..Human or animal
 340/575 ...Sleep

4 340/576 (0 OR, 4 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL
 340/500 CONDITION RESPONSIVE INDICATING SYSTEM
 340/540 .Specific condition
 340/573.1 ..Human or animal
 340/576 ...Drive capability

4 381/324 (1 OR, 3 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/312 HEARING AIDS, ELECTRICAL
 381/322 .Specified casing or housing
 381/324 ..Component mounting

4 381/350 (1 OR, 3 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/337 .Having acoustic wave modifying structure
 381/345 ..Acoustic enclosure
 381/350 ...Front wave

4 381/351 (2 OR, 2 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 381/337 .Having acoustic wave modifying structure
 381/345 ..Acoustic enclosure
 381/351 ...Plural chambers

4 381/354 (0 OR, 4 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES

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	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/337	.Having acoustic wave modifying structure
	381/354	..Absorbing or attenuating element
4	381/371	(1 OR, 3 XR)
	Class 381	: ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/182	.Plural or compound reproducers
	381/370	..Headphone
	381/371	...Particular cup
4	381/98	(1 OR, 3 XR)
	Class 381	: ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/98	INCLUDING FREQUENCY CONTROL
4	417/310	(1 OR, 3 XR)
	Class 417	: PUMPS
	417/279	WITH CONDITION RESPONSIVE PUMPED FLUID CONTROL
	417/307	.Pressure responsive relief or bypass valve
	417/310	..Rotary expansible chamber pump
4	439/607	(2 OR, 2 XR)
	Class 439	: ELECTRICAL CONNECTORS
	439/607	HAVING OR PROVIDING INDUCTIVE OR CAPACITIVE SHIELD
4	455/569.1	(4 OR, 0 XR)
	Class 455	: TELECOMMUNICATIONS
	455/73	TRANSMITTER AND RECEIVER AT SAME STATION (E.G. TRANSCEIVER)
	455/550.1	.Radiotelephone equipment detail
	455/569.1	..Hands-free or loudspeaking arrangement
3	56/202	(3 OR, 0 XR)
	Class 056	: HARVESTERS
	56/194	CUTTING AND CATCHING
	56/202	.Catchers
3	181/148	(0 OR, 3 XR)
	Class 181	: ACOUSTICS
	181/148	DIAPHRAGM AND ENCLOSURE
3	181/155	(0 OR, 3 XR)
	Class 181	: ACOUSTICS

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- 181/148 DIAPHRAGM AND ENCLOSURE
- 181/155 .Reflector baffle

- 3 181/224 (1 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/212 .Muffler, fluid conducting type
 - 181/224 ..Sound absorbing ventilating duct or curb
(e.g., a/c, heat, air flow type)

- 3 303/9.73 (2 OR, 1 XR)
 - Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 - 303/5 MULTIPLE FLUID-RECEIVING DEVICES
 - 303/6.01 .Multiple motors
 - 303/9.62 ..Apportioning control
 - 303/9.73 ...Having significant output feature

- 3 340/391.1 (0 OR, 3 XR)
 - Class 340 : COMMUNICATIONS: ELECTRICAL
 - 340/384.1 AUDIBLE INDICATION
 - 340/388.1 .Diaphragm (e.g., horn or buzzer)
 - 340/391.1 ..Housing or mounting

- 3 361/681 (1 OR, 2 XR)
 - Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES
 - 361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
 - 361/679 .For electronic systems and devices
 - 361/681 ..Including display support

- 3 368/10 (1 OR, 2 XR)
 - Class 368 : HOROLOGY: TIME MEASURING SYSTEMS OR DEVICES
 - 368/10 COMBINED WITH DISPARATE DEVICE

- 3 379/420.02 (2 OR, 1 XR)
 - Class 379 : TELEPHONIC COMMUNICATIONS
 - 379/419 TERMINAL
 - 379/420.01 .Having loudspeaking conversation capability
(e.g., hands- free type or speakerphone)
 - 379/420.02 ..Hands-free loudspeaker feature

- 3 381/348 (0 OR, 3 XR)
 - Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
 - 381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
 - 381/337 .Having acoustic wave modifying structure

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381/345 ..Acoustic enclosure
381/346 ...Acoustic resistance
381/348 On rear side of diaphragm

3 381/353 (0 OR, 3 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/337 .Having acoustic wave modifying structure
381/345 ..Acoustic enclosure
381/353 ...Acoustic damping or attenuating resonator

3 381/361 (0 OR, 3 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/355 .Housed microphone
381/361 ..Mounting or support

3 381/373 (1 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/182 .Plural or compound reproducers
381/370 ..Headphone
381/371 ...Particular cup
381/373 Openable to ambient

3 381/381 (2 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/182 .Plural or compound reproducers
381/370 ..Headphone
381/374 ...Particular support structure
381/381 Hook over ear or spectacle

3 381/385 (1 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/385 .Having body supported structure other than on
 head

3 381/387 (0 OR, 3 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER

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381/386 .Mounting or support feature of housed
loudspeaker

381/387 ..Directional, directible, or movable

3 381/71.7 (0 OR, 3 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES

381/71.1 ACOUSTICAL NOISE OR SOUND CANCELLATION

381/71.7 .Particular transducer or enclosure structure

3 381/86 (1 OR, 2 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES

381/86 VEHICLE

3 381/91 (2 OR, 1 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES

381/87 HAVING NON-ELECTRICAL FEATURE (E.G., MOUNTING)

381/91 .Having microphone

3 381/92 (1 OR, 2 XR)

Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES

381/92 DIRECTIVE CIRCUITS FOR MICROPHONES

3 417/269 (1 OR, 2 XR)

Class 417 : PUMPS

417/269 THREE OR MORE CYLINDERS ARRANGED IN PARALLEL,
RADIAL, OR CONICAL RELATIONSHIP WITH ROTARY

TRANSMISSION

AXIS

3 418/DIG 1 (0 OR, 3 XR)

Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES

418/DIG 1 NON-WORKING FLUID SEPARATION

3 439/939 (0 OR, 3 XR)

Class 439 : ELECTRICAL CONNECTORS

439/939 WITH GROUNDING TO METAL MOUNTING PANEL

3 455/350 (0 OR, 3 XR)

Class 455 : TELECOMMUNICATIONS

455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
CONVERTER

455/347 .Cabinet, housing, or chassis structure

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455/350 ..With particular speaker mounting

3 455/575.1 (1 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS

455/73 TRANSMITTER AND RECEIVER AT SAME STATION (E.G.

TRANSCEIVER)

455/550.1 .Radiotelephone equipment detail

455/575.1 ..Housing or support

2 2/423 (0 OR, 2 XR)

Class 002 : APPAREL

2/455 GUARD OR PROTECTOR

2/410 .For wearer's head

2/423 ..And ears

2 15/326 (2 OR, 0 XR)

Class 015 : BRUSHING, SCRUBBING, AND GENERAL CLEANING

15/3 MACHINES

15/300.1 .With air blast or suction

15/326 ..With sound muffling feature

2 56/320.2 (0 OR, 2 XR)

Class 056 : HARVESTERS

56/229 CUTTING

56/320.1 .Housing or guard

56/320.2 ..With discharge opening

2 60/562 (2 OR, 0 XR)

Class 060 : POWER PLANTS

60/325 PRESSURE FLUID SOURCE AND MOTOR

60/533 .Pulsator

60/562 ..Master piston of one pulsator circuit drives
master piston of a parallel circuit through

a resilient,

fluid or lost motion connection

2 62/262 (1 OR, 1 XR)

Class 062 : REFRIGERATION

62/259.1 STRUCTURAL INSTALLATION

62/262 .Window connected or mounted

2 91/375A (1 OR, 1 XR)

Class 091 : MOTORS: EXPANSIBLE CHAMBER TYPE

91/358R WORKING MEMBER POSITION FEEDBACK TO MOTIVE
FLUID CONTROL

91/368 .Follower type

91/374 ..Plural movable valve parts

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91/375R ...Valve part moves about an axis
91/375ATorsion bar

2 92/98D (0 OR, 2 XR)

Class 092 : EXPANSIBLE CHAMBER DEVICES
92/89 COLLAPSIBLE CHAMBER WALL PORTION (E.G., HINGED
OR FLEXIBLE WALL)
92/90 .Wall portion formed of flexible material
92/96 ..Diaphragm type
92/98R ...Entire periphery secured to rigid working
chamber forming wall
92/98DRolling diaphragm

2 92/99 (0 OR, 2 XR)

Class 092 : EXPANSIBLE CHAMBER DEVICES
92/89 COLLAPSIBLE CHAMBER WALL PORTION (E.G., HINGED
OR FLEXIBLE WALL)
92/90 .Wall portion formed of flexible material
92/96 ..Diaphragm type
92/98R ...Entire periphery secured to rigid working
chamber forming wall
92/99With undistortable member secured to
central portion of diaphragm

2 128/859 (0 OR, 2 XR)

Class 128 : SURGERY
128/846 BODY PROTECTING OR RESTRAINING DEVICES FOR
PATIENTS OR INFANTS (E.G., SHIELDS, IMMOB

ILIZERS)

128/857 .Head or face protector (e.g., lips, ears,
etc.)
128/859 ..Oral cavity protectors

2 137/315.21 (2 OR, 0 XR)

Class 137 : FLUID HANDLING
137/315.03 .Solenoid or electromagnetically operated
valve
137/315.17 .Assembling or disassembling rotary valve
137/315.18 ..Rotary ball valve
137/315.19 ...Particular valve seat or interface seal
137/315.2Replaceable
137/315.21With top entry valve

2 137/625.17 (2 OR, 0 XR)

Class 137 : FLUID HANDLING
137/561R SYSTEMS
137/625 .Multi-way valve unit
137/625.17 ..Selective reciprocation or rotation

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- 2 137/625.4 (0 OR, 2 XR)
 - Class 137 : FLUID HANDLING
 - 137/561R SYSTEMS
 - 137/625 .Multi-way valve unit
 - 137/625.4 ..Multiple inlet with single outlet
- 2 181/163 (0 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/157 DIAPHRAGM
 - 181/163 .Plural dependent diaphragms
- 2 181/182 (0 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/177 .Intensifying horn
 - 181/182 ..With resonant chamber
- 2 181/187 (0 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/177 .Intensifying horn
 - 181/187 ..Plural intensifying portions
- 2 181/206 (1 OR, 1 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/206 .By wave interference
- 2 181/230 (2 OR, 0 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/212 .Muffler, fluid conducting type
 - 181/230 ..Pneumatic type motor (e.g., air hammer, etc.

)

- 2 181/272 (0 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS
 - 181/212 .Muffler, fluid conducting type
 - 181/264 ..With baffle or baffle structure
 - 181/269 ...Expansion chamber type
 - 181/272Plural chambers
- 2 181/296 (0 OR, 2 XR)
 - Class 181 : ACOUSTICS
 - 181/175 SOUND-MODIFYING MEANS

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181/296 .Methods

- 2 219/757 (2 OR, 0 XR)
 Class 219 : ELECTRIC HEATING
 219/678 MICROWAVE HEATING
 219/756 .Enclosed cavity structure
 219/757 ..With cooling or ventilation
- 2 251/174 (0 OR, 2 XR)
 Class 251 : VALVES AND VALVE ACTUATION
 251/157 WITH MEANS TO INCREASE HEAD AND SEAT CONTACT
 PRESSURE
 251/170 .Seat pressed to valve
 251/174 ..Spring
- 2 251/315.08 (0 OR, 2 XR)
 Class 251 : VALVES AND VALVE ACTUATION
 251/304 ROTARY VALVES
 251/315.01 .Ball valve
 251/315.08 ..Including trunnion opposite axially extendin
 g
 actuating means

- 2 251/315.12 (0 OR, 2 XR)
 Class 251 : VALVES AND VALVE ACTUATION
 251/304 ROTARY VALVES
 251/315.01 .Ball valve
 251/315.1 ..Housing construction
 251/315.11 ...Head removable perpendicular to flow passag
 e

251/315.12At the actuator side (i.e., top entry)

- 2 251/316 (0 OR, 2 XR)
 Class 251 : VALVES AND VALVE ACTUATION
 251/304 ROTARY VALVES
 251/314 .Seat or interface seal
 251/316 ..Replaceable
- 2 303/116.1 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS
 303/121 SPEED-CONTROLLED
 303/113.1 .Having a valve system responsive to a wheel
 lock signal
 303/116.1 ..Including pump with system solenoid valve
- 2 303/117.1 (1 OR, 1 XR)
 Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

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303/121 SPEED-CONTROLLED

303/113.1 .Having a valve system responsive to a wheel
lock signal

303/117.1 ..Spool valve

2 303/119.1 (0 OR, 2 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

303/121 SPEED-CONTROLLED

303/113.1 .Having a valve system responsive to a wheel
lock signal

303/119.1 ..System controlled by solenoid valve

2 303/9.63 (0 OR, 2 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

303/5 MULTIPLE FLUID-RECEIVING DEVICES

303/6.01 .Multiple motors

303/9.62 ..Apportioning control

303/9.63 ...Failure responsive

2 303/9.75 (0 OR, 2 XR)

Class 303 : FLUID-PRESSURE AND ANALOGOUS BRAKE SYSTEMS

303/5 MULTIPLE FLUID-RECEIVING DEVICES

303/6.01 .Multiple motors

303/9.62 ..Apportioning control

303/9.75 ...Detail

2 340/388.1 (2 OR, 0 XR)

Class 340 : COMMUNICATIONS: ELECTRICAL

340/384.1 AUDIBLE INDICATION

340/388.1 .Diaphragm (e.g., horn or buzzer)

2 348/374 (2 OR, 0 XR)

Class 348 : TELEVISION

348/207.99 CAMERA, SYSTEM AND DETAIL

348/373 .Support or housing

348/374 ..For internal camera components

2 351/123 (0 OR, 2 XR)

Class 351 : OPTICS: EYE EXAMINING, VISION TESTING AND
CORRECTING

351/41 SPECTACLES AND EYEGLASSES

351/111 .Temples

351/123 ..With head or ear engaging attachments

2 351/201 (2 OR, 0 XR)

Class 351 : OPTICS: EYE EXAMINING, VISION TESTING AND
CORRECTING

351/200 EYE EXAMINING OR TESTING INSTRUMENT

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351/201 .For fusion and space perception testing (e.g.
stereoscopic vision)

2 359/694 (2 OR, 0 XR)
Class 359 : OPTICS: SYSTEMS
359/642 LENS
359/676 .With variable magnification (e.g., zoom type)

359/694 ..Adjusting mechanism

2 359/700 (0 OR, 2 XR)
Class 359 : OPTICS: SYSTEMS
359/642 LENS
359/676 .With variable magnification (e.g., zoom type)

359/694 ..Adjusting mechanism
359/699 ...Having cam device
359/700Cam groove type

2 359/704 (0 OR, 2 XR)
Class 359 : OPTICS: SYSTEMS
359/642 LENS
359/676 .With variable magnification (e.g., zoom type)

359/694 ..Adjusting mechanism
359/703 ...With specified mount
359/704Having detail of barrel

2 361/683 (1 OR, 1 XR)
Class 361 : ELECTRICITY: ELECTRICAL SYSTEMS AND DEVICES

361/600 HOUSING OR MOUNTING ASSEMBLIES WITH DIVERSE
ELECTRICAL COMPONENTS
361/679 .For electronic systems and devices
361/683 ..Computer related support

2 379/142.04 (2 OR, 0 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/142.01 RECEPTION OF CALLING INFORMATION AT SUBSTATION
IN WIRELINE COMMUNICATIONS SYSTEM
379/142.04 .Extracting call ID from transmitted signal

2 379/142.17 (0 OR, 2 XR)
Class 379 : TELEPHONIC COMMUNICATIONS
379/142.01 RECEPTION OF CALLING INFORMATION AT SUBSTATION
IN WIRELINE COMMUNICATIONS SYSTEM
379/142.17 .Having display unit

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- 2 379/429 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/419 TERMINAL
 379/428.01 .Housing or housing component
 379/429 ..Having distinct circuitry support structure
 (e.g., circuit board)
- 2 379/433.01 (1 OR, 1 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/419 TERMINAL
 379/428.01 .Housing or housing component
 379/433.01 ..Handset structure
- 2 379/433.06 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/419 TERMINAL
 379/428.01 .Housing or housing component
 379/433.01 ..Handset structure
 379/433.06 ...Button or switch having specific function
- 2 379/434 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/419 TERMINAL
 379/428.01 .Housing or housing component
 379/434 ..Specified terminal configuration (e.g.,
 novelty type)
- 2 379/93.23 (0 OR, 2 XR)
 Class 379 : TELEPHONIC COMMUNICATIONS
 379/90.01 TELEPHONE LINE OR SYSTEM COMBINED WITH DIVERSE
 ELECTRICAL SYSTEM OR SIGNALLING (E.G., C
 OMPOSITE)
 379/93.01 .Having transmission of a digital message
 signal over a telephone line
 379/93.17 ..Having station display
 379/93.23 ...Having user information display (e.g.,
 telephone number, name, address, etc.)
- 2 381/103 (0 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES
 381/98 INCLUDING FREQUENCY CONTROL
 381/103 .Having automatic equalizer circuit
- 2 381/111 (0 OR, 2 XR)
 Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
 AND DEVICES

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381/111 CIRCUITRY COMBINED WITH SPECIFIC TYPE
MICROPHONE OR LOUDSPEAKER

- 2 381/160 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/337 .Having acoustic wave modifying structure
381/160 ..Reflecting element
- 2 381/182 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/182 .Plural or compound reproducers
- 2 381/189 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/189 .Having protective or sheilding feature
- 2 381/190 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/190 .Electrostrictive, magnetostrictive, or
piezoelectric
- 2 381/308 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/1 BINAURAL AND STEREOPHONIC
381/300 ..Stereo speaker arrangement
381/308 ..In single baffle
- 2 381/323 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL
381/322 .Specified casing or housing
381/323 ..Power supply or programming interface
terminals
- 2 381/327 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/312 HEARING AIDS, ELECTRICAL

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381/322	.Specified casing or housing
381/327	..Spectacle

2	381/329	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/312	HEARING AIDS, ELECTRICAL
	381/322	.Specified casing or housing
	381/328	..Ear insert
	381/329	...Device for manipulation

2	381/342	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/337	.Having acoustic wave modifying structure
	381/339	..Sound intensifying or spreading element
	381/340	...Horn
	381/342Plural horns or diaphragms

2	381/346	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/337	.Having acoustic wave modifying structure
	381/345	..Acoustic enclosure
	381/346	...Acoustic resistance

2	381/374	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/182	.Plural or compound reproducers
	381/370	..Headphone
	381/374	...Particular support structure

2	381/375	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES
	381/150	ELECTRO-ACOUSTIC AUDIO TRANSDUCER
	381/182	.Plural or compound reproducers
	381/370	..Headphone
	381/374	...Particular support structure
	381/375And microphone

2	381/376	(0 OR, 2 XR)
	Class	381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS AND DEVICES

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381/150 ELECTRO-ACOUSTIC AUDIO TRANSDUCER
381/182 .Plural or compound reproducers
381/370 ..Headphone
381/374 ...Particular support structure
381/376Headgear

2 381/59 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/58 MONITORING/MEASURING OF AUDIO DEVICES
381/59 .Loudspeaker operation

2 381/67 (2 OR, 0 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/67 STETHOSCOPES, ELECTRICAL

2 381/71.1 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/71.1 ACOUSTICAL NOISE OR SOUND CANCELLATION

2 381/74 (0 OR, 2 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/74 HEADPHONE CIRCUITS

2 381/94.1 (1 OR, 1 XR)
Class 381 : ELECTRICAL AUDIO SIGNAL PROCESSING SYSTEMS
AND DEVICES
381/94.1 NOISE OR DISTORTION SUPPRESSION

2 417/312 (1 OR, 1 XR)
Class 417 : PUMPS
417/312 WITH MUFFLER ACTING ON PUMP FLUID

2 418/132 (1 OR, 1 XR)
Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES
418/104 WITH MECHANICAL SEALING
418/131 .Axially movable end wall or end wall portion
418/132 ..Progressively biased from inlet to outlet

2 418/55.6 (1 OR, 1 XR)
Class 418 : ROTARY EXPANSIBLE CHAMBER DEVICES
418/54 WORKING MEMBER HAS PLANETARY OR PLANETATING
MOVEMENT
418/55.1 .Helical working member, e.g., scroll

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418/55.6 ..With lubricant, liquid seal or nonworking
fluid separation

2 422/82.02 (2 OR, 0 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,
DEODORIZING, PRESERVING, OR STERILIZING
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE

422/68.1 .Means for analyzing liquid or solid sample
422/82.01 ..Measuring electrical property
422/82.02 ...Resistance or conductivity

2 422/82.03 (0 OR, 2 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,
DEODORIZING, PRESERVING, OR STERILIZING
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE

422/68.1 .Means for analyzing liquid or solid sample
422/82.01 ..Measuring electrical property
422/82.03 ...Ion selective electrode

2 422/82.04 (0 OR, 2 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,
DEODORIZING, PRESERVING, OR STERILIZING
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE

422/68.1 .Means for analyzing liquid or solid sample
422/82.01 ..Measuring electrical property
422/82.03 ...Ion selective electrode
422/82.04Dissolved gas

2 422/98 (0 OR, 2 XR)

Class 422 : CHEMICAL APPARATUS AND PROCESS DISINFECTING,
DEODORIZING, PRESERVING, OR STERILIZING
422/50 ANALYZER, STRUCTURED INDICATOR, OR MANIPULATIV

E

LABORATORY DEVICE

422/83 .Means for analyzing gas sample
422/98 ..Analysis based on electrical measurement

2 434/112 (0 OR, 2 XR)

Class 434 : EDUCATION AND DEMONSTRATION
434/112 COMMUNICATION AIDS FOR THE HANDICAPPED

2 434/113 (2 OR, 0 XR)

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Class 434 : EDUCATION AND DEMONSTRATION
 434/112 COMMUNICATION AIDS FOR THE HANDICAPPED
 434/113 .Tactile reading aid (e.g., Braille, etc.)

2 434/116 (0 OR, 2 XR)

Class 434 : EDUCATION AND DEMONSTRATION
 434/112 COMMUNICATION AIDS FOR THE HANDICAPPED
 434/116 .Converting information to sound

2 434/169 (0 OR, 2 XR)

Class 434 : EDUCATION AND DEMONSTRATION
 434/156 LANGUAGE
 434/167 .Spelling, phonics, word recognition, or
 sentence formation
 434/169 ..Electrical component included in teaching
 means

2 439/541.5 (1 OR, 1 XR)

Class 439 : ELECTRICAL CONNECTORS
 439/527 WITH SUPPORTING MEANS FOR COUPLING PART
 439/540.1 .Supporting plural, independent coupling parts
 439/541.5 ..Stacked right-angle connector for use on
 printed circuit board (i.e., PCB)

2 439/609 (2 OR, 0 XR)

Class 439 : ELECTRICAL CONNECTORS
 439/607 HAVING OR PROVIDING INDUCTIVE OR CAPACITIVE
 SHIELD
 439/609 .Resilient conductive means providing
 additional electrical path between mating o
 uter shield
 members

2 455/351 (0 OR, 2 XR)

Class 455 : TELECOMMUNICATIONS
 455/130 RECEIVER OR ANALOG MODULATED SIGNAL FREQUENCY
 CONVERTER
 455/347 .Cabinet, housing, or chassis structure
 455/351 ..Transportable

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PLUS Search Results for S/N 10065996, Searched April 11, 2005

The Patent Linguistics Utility System (PLUS) is a USPTO automated search system for U.S. Patents from 1971 to the present. PLUS is a query-by-example search system which produces a list of patents that are most closely related linguistically to the application searched. This search was prepared by the staff of the Scientific and Technical Information Center, SIRA.

6163610	4924964	6135235	5905598	4255932	4158279
4249037	4945334	4870689	5924138	4272794	4168761
4850023	5010977	5222050	5949897	4376370	4078386
5381387	5204907	5278360	5953414	4415210	4089344
5909490	5233137	5401920	5995636	4437539	4096844
6064894	5240336	5712918	6031924	4531893	4245969
6819946	5268965	5864628	6084976	4598691	4265491
6312393	5321388	5887070	6183427	4621986	4265042
6151399	5323466	5970157	6621910	4821366	4273562
5878147	5369701	5982908	6658110	4953655	4274304
6075869	5383771	4375016	6658121	5004066	4284166
5208868	5457749	4932275	6788798	5012890	4283997
6134334	5496156	5068901	5512881	5206912	4286688
6144738	5507215	5343523	5210793	5315444	4292887
3836732	5511130	5418339	5278771	5352399	4302057
4290335	5513266	5909495	5646975	5358320	4306408
4311206	5524062	6104808	5714925	5362136	4311345
4858722	5612516	6186269	6183042	5431489	4314126
4922542	5664428	6459800	4272764	5432860	4314796
5177329	5685887	6473625	4361834	5542263	4319786
5253142	5710395	5586562	6067020	5628625	4326193
5281777	5720074	6058315	6259188	5775946	4326370
5655017	5725379	5757933	5349397	5781407	4327274
5729605	5731556	4453050	3585901	5826315	4327626
5790679	5894425	4597099	4964018	6167803	4334838
5895896	5894629	4977975	6056598	6169658	4335273
5933511	5933510	4979586	6095166	6179326	4338854
5936209	5993217	5790672	6190310	6189882	4340339
6002949	6044917	4268719	4913161	6199586	4348828
6014448	6062338	4399334	5642102	6203379	4352149
6091832	6072880	4445228	6111503	6247969	4360162
6151785	6074225	4474258	6126299	3666007	4361539
6285771	6108415	4755791	6226368	3930222	4361540
6324284	6114944	4972492	6226368	3909556	4369695
6798890	6112847	5027411	5807139	3902637	4370807

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6205840	6227307	5216711	5992685	3865515	4373161
6215391	6259798	5222151	6113428	3833318	4373871
6215391	6285772	5241422	6139367	3831455	4373606
6091829	6307947	5287412	4434359	3828360	4377176
5703957	6389145	5318200	4459944	3815961	4378030
5805708	6396932	5402486	RE31679	3813725	4382481
5854848	6561311	5406037	4997005	4026530	4384745
5920350	6575074	5420935	5492394	4027520	4387629
6009184	6625292	5544253	5716152	4031888	4388945
6243138	6744902	5661270	6003652	4033431	4390039
4349084	6870942	5666326	6095853	4045157	4391266
4410064	4972488	5809156	6155225	4051330	4395097
RE31483	6105713	5828757	6171152	4146744	4398364
4796009	6131696	5844998	6210237	4146745	4408962
4887690	6134333	5872339	6210237	4149452	4410770